Exhibit A

CURRICULUM VITAE

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1. ACADEMIC DEGREES

Degree In Chemistry (BSC). Autónoma University of Madrid (Spain). 1982.

• Ph. D. In Chemistry. Autónoma University of Madrid. 1987. Cum Laude

2. PROFESSIONAL EMPLOYMENTS AND RESEARCH EXPERIENCE

- 1985-1987. Graduent Student. Fellow of the MEC. Organic Chemistry Institute. CSIC. Supervisor: Dr. Manuel Martin-Lomas.
- 1988. Postdoctoral Fellow, École Normale Supérieure, Paris. Supervisor: Dr. Pierre Sinaÿ
- 1989. Posdoctoral Fellow. Massachusetts Institute of Technology. Supervisor: Dr. A.M. Klibanov
- 1990-2002. Tenure Scientist at the Department of Biological Chemistry, Institute of Organic Chemistry, C.S.I.C. Madrid (Spain).
- 1991 (4 months). Visiting Scientist at the Chemical Center, Lund (Sweden). Supervisor: Dr. K. G. I.
 Nilsson.
- 2002-. Scientific Researcher at the Department of Biological Chemistry, Institute of Organic Chemistry, C.S.I.C. Madrid (Spain).

3. MAIN RESEARCH INTEREST

Carbohydrate chemistry. Synthesis of glycoconjugates with biological significance. Use of enzymes in organic synthesis.

4. PUBLICATIONS

A. Fernández-Mayoralas y M. Martín-Loma. Synthesis of 3-O-methyl and 4-O-methyltetra-O-acetyl- α -D-galactopyranose. *Anal. Quim.*, 80C (1984) 184-185.

A. Fernández-Mayoralas, M. Martín-Lomas y D. Villanueva. 4-O-β-D-Galactopyranosyl-3-O-methyl-D-glucose: a new synthesis and application to the evaluation of intestinal lactase. *Carbohydr. Res.*, 140 (1985) 81-91.

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M. L. Jimeno, A. Fernández-Mayoralas, M. Martín-Lomas y A. Alemany. 13 C-NMR studies of peracetylated derivatives of O- α and O- β -D-galactopyranosyl-(1-->3) and (1-->4)- α -galactopyranose. *Carbohydr. Res.*, 161 (1987) 144-149.

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C. Jaramillo, A. Fernández-Mayoralas y M. Martín-Lomas. The acetonation of methyl β-maltoside with 2-methoxypropene. *Carbohydr. Res.*, 182 (1988) 153-158.

A. Fernández-Mayoralas, M. Bernabé, M. Martín-Lomas. The regioselectivity of dibutylstannylene mediated oxidation of methyl 3',4'-O-isopropylidene- β and α -lactoside. A new synthesis of N-acetyllactosamine. *Tetrahedron*, 44 (1988) 4877-4882.

A. Fernández-Mayoralas, A. Marra, M. Trumtel, A. Veyrieres y P. Sinay. Convenient synthesis of substituted pyranoid glycals from thiophenyl glcosides and glycosyl phenylsulfones. *Tetrahedr. Lett.*, 30 (1989) 2537-2540.

A. Fernández-Mayoralas, A. Marra, M. Trumtel, A. Veyrieres y P. Sinay. Preparation of pyranoid glycal derivatives from phenyl thioglycosides and glycosyl phenylsulfones. *Carbohydr. Res.*, 188 (1989) 81-95.

M. Bernabé, A. Fernández-Mayoralas, J. Jiménez-Barbero, M. Martín-Lomas y A. Rivera. The conformation of eight-membered 3,2´-O-isopropylidene acetals of some common disaccharides. *J. Chem. Soc., Perkin Trans. II*, (1989) 1867-1873.

T. Desai, A. Fernández-Mayoralas, J. Gigg, R. Gigg y S. Payne. The synthesis and resolution of 1,5,6-tri-O-benzyl-myo-inosito. *Carbohydr. Res.*, 205 (1990) 105-123.

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F. F. Santos-Benito, M. Nieto-Sampedro, A. Fernández-Mayoralas y M. Martín-Lomas. Synthesis of oligosaccharide inhibitors of neural cell division. *Carbohydr. Res.*, 230 (1992) 185-190.

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4. PATENTS

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